

BEARTOOTH OIL & GAS COMPANY _____

P.O. BOX 2564

BILLINGS, MONTANA 59103

(406) 259-2451

May 26, 1982

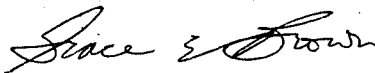
Minerals Management Service
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104

Gentlemen:

Enclosed please find Applications to Drill covering our Federal No. 33-8 and Federal No. 33-16 wells located in Grand County, Utah, for your approval.

Yours very truly,

BEARTOOTH OIL & GAS COMPANY



Grace E. Brown
Drilling Department

gb

Enclosures

cc: Oil, Gas & Mining Division
4241 State Office Building
Salt Lake City, Utah 84114

Gentlemen: We hereby request an exception location on the Federal No. 33-16 well due to the severe topographic problems, as can be seen from Map No. 1 attached to the Application.

GEB

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☐GAS
WELL ☒

OTHER

SINGLE
ZONE ☐MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Beartooth Oil & Gas Company

3. ADDRESS OF OPERATOR

P. O. Box 2564, Billings, Montana 59103

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface 1041' FSL, 450' FEL

At proposed prod. zone

same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

20 miles northwest of Mack, Colorado

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

450'

16. NO. OF ACRES IN LEASE

600

17. NO. OF ACRES ASSIGNED
TO THIS WELL

320

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

2318'

19. PROPOSED DEPTH

5980'

20. ROTARY OR CABLE TOOLS

rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

6934' GL, 6950' KB

22. APPROX. DATE WORK WILL START*

August 15, 1982

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8"	32.3# H-40 STC	200'	150 sacks Class "G"
8-3/4"	7" New	20# K-55 STC	1920'	150 sacks 50-50 Pozmix
6-1/4"	4 1/2" New	11.6# K-55 LTC	5980'	175 sacks RFC

1. Surface formation is the Mesaverde.
2. Anticipated geologic markers are: Mancos 1390', Castlegate 1720', Frontier 4920', Dakota 5310', Morrison 5530'.
3. Gas is anticipated in the Dakota and Morrison. No oil or other minerals are anticipated. Possible water sands are expected in the Mesaverde.
4. Proposed casing program: See Item No. 23 above.
5. Pressure control equipment: See attached well control plan and schematic of drilling contractor's BOP stack. BOP's will be tested before drilling out from under surface and intermediate casing and checked daily.
6. Air or mist drilling will be used to drill the surface hole unless water is encountered. If water is encountered, chemical-gel type mud will be used. The well will be air drilled from under surface casing to total depth.

(continued back page)

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout prevention program, if any.

24.

SIGNED

James G. Routson

TITLE

Petroleum Engineer

DATE 5/25/82

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 7/2/82
BY: [Signature]

Instructions

General: This form is designed for submitting proposals to perform certain well operations, as indicated on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

Items 15 and 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

Item 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

★ U.S. GOVERNMENT PRINTING OFFICE : 1963-O-711-396

7. Auxiliary equipment: See well control plan.

8. The logging program will consist of a DIL log from TD to base of intermediate casing and GR-FDC-SNP or CNL logs from TD to above the Frontier. No cores or DST's planned.

9. No abnormal pressures or temperatures anticipated. No poisonous gas is anticipated.

10. Anticipated spud date is August 15, 1982, depending upon rig availability. Completion operations should commence within 30 days of rig release.

11. Survey plats are attached.

12. The gas is not dedicated.

13. Beartooth has a Utah Statewide Oil and Gas Bond - #55-77-50.

material - 5-2-82

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYMINERAL SERVICE
LEASE DESIGNATION AND SERIAL NO.
OIL & GAS DISTRICT, ALLOTTEE OR TRIBE NAME
U-51052
MAY 28 1982

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK RECEIVED

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☐GAS
WELL ☒

OTHER

SINGLE
ZONE ☐MULTIPLE
ZONE ☒

2. NAME OF OPERATOR

Beartooth Oil & Gas Company

3. ADDRESS OF OPERATOR

P. O. Box 2564, Billings, Montana 59103

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

1041' FSL, 450' FEL

At proposed prod. zone

same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

20 miles northwest of Mack, Colorado

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

450'

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

2318'

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

6934' GL, 6950' KB

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
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2. Anticipated geologic markers are: Mancos 1390', Castlegate 1720', Frontier 4920', Dakota 5310', Morrison 5530'.
3. Gas is anticipated in the Dakota and Morrison. No oil or other minerals are anticipated. Possible water sands are expected in the Mesaverde.
4. Proposed casing program: See Item No. 23 above.
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(continued back page)

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24. SIGNED James G. Routson
James G. Routson
(This space for Federal or State office use)

TITLE Petroleum Engineer

DATE 5/25/82

PERMIT NO.

APPROVAL DATE

APPROVED BY

FOR E.W. GUYNN
DISTRICT OIL & GAS SUPERVISOR

DATE

JUN 08 1982

CONDITIONS OF APPROVAL, IF ANY:

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED
TO OPERATOR'S COPYFLARING OR VENTING OF
GAS IS SUBJECT TO NTL 4-A
DATED 1/1/80

Instructions

General: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

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Items 15 and 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

Item 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

7. Auxiliary equipment: See well control plan.

8. The logging program will consist of a DIL log from TD to base of intermediate casing and GR-FDC-SNP or CNL logs from TD to above the Frontier. No cores or DST's planned.

9. No abnormal pressures or temperatures anticipated. No poisonous gas is anticipated.

10. Anticipated spud date is August 15, 1982, depending upon rig availability. Completion operations should commence within 30 days of rig release.

11. Survey plats are attached.

12. The gas is not dedicated.

13. Beartooth has a Utah Statewide Oil and Gas Bond #55-77-50.

(continued)

James A. Beartooth

(This space for Federal or State office use)

PERMIT NO.

APPROVED BY

CONDITIONS OF FEDERAL LANDS

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, REFRIGERATE, OR PLUG BACK

1. TYPE OF WORK <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REFRIGERATE <input type="checkbox"/> PLUG BACK	
2. TYPE OF WELL <input type="checkbox"/> OIL <input type="checkbox"/> GAS <input type="checkbox"/> OTHER	
3. NAME OF OPERATOR Beartooth Oil & Gas Company	
4. ADDRESS OF OPERATOR P.O. Box 2564, Billings, Montana 59103	
5. LOCATION OF WELL (If not located on a lease, give location of well and name of landowner.) 10411 East 1st St.	
6. AT PROPOSED PROD. AND 2219	
7. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR SET OF CROSSROADS 20 miles northwest of Hobbs, Colorado	
8. DISTANCE FROM PROPOSED LOCATION TO NEAREST TOWN OR SET OF CROSSROADS (Also to nearest gas well, if any.)	
9. DISTANCE FROM PROPOSED LOCATION TO NEAREST OIL OR GAS WELL (Also to nearest gas well, if any.)	
10. ELEVATIONS (Show whether DD, RT, or, etc.) 6834' GL, 6800' KB	
11. PROPOSED Casing and Cementation Program	
12. SIZE OF HOLES 9-1/4" 3-3/4" 10-1/4"	
13. WEIGHT OF HOLES 11.2 11.2 11.2	
14. PROPOSED Casing and Cementation Program	

★ U.S. GOVERNMENT PRINTING OFFICE: 1983-O-711-398

Identification No. 348-82

United States Department of the Interior
Minerals Management Service
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104-3884

NEPA CATEGORICAL EXCLUSION REVIEW

MINERALS MANAGEMENT
SERVICE
OIL & GAS OPERATIONS
RECEIVED
JUL 1 1982
SALT LAKE CITY, UT

PROJECT IDENTIFICATION

Operator Bear Tooth Oil & Gas Company
Project Type Gas Well - Development
Project Location 1041 FSL 450 F&S SEC 33 T16S R25E
Well No. 33-16 Lease No. U-SP52
Date Project Submitted 5-28-82

FIELD INSPECTION

Date 6-24-82

Field Inspection
Participants

Craig Hansen MMS-Verona
Chris Duncan BLM-Moab
Kevin Cherry " "
Paul Brown " "
Ken Curry Bear Tooth Oil & Gas

I have reviewed the proposal in accordance with the categorical exclusion review guidelines. This proposal would not involve any significant effects and, therefore, does not represent an exception to the categorical exclusions.

6-25-82
Date Prepared

Craig Hansen
Environmental Scientist

I concur

JUL 01 1982

Date

W. P. Martin

District Supervisor

FOR E. W. GUYNN
DISTRICT OIL & GAS SUPERVISOR

CATEGORICAL EXCLUSION REVIEW INFORMATION SOURCE

Criteria	Federal/State Agency			Local and private correspondence (date)	Previous NEPA	Other studies and reports	Staff expertise	Onsite inspection (date)	Other
	Correspondence (date)	Phone check (date)	Meeting (date)						
516 DM 2.3.A									
Public health and safety	BLM 6-28-82						2	6-28-82 246	
Unique characteristics	1						2	246	
Environmentally controversial	1						2	246	
Uncertain and unknown risks	1						2	246	
Establishes precedents	1						2	246	
Cumulatively significant	1						2	246	
National Register historic places	1						2	246	
Endangered/threatened species	1								
Violate Federal, State, local, tribal law	1								

Recommended stipulations for Bear Tooth Oil Gas #33-16.

1. Production facilities will be on the NW corner of location.
2. Pipeline will follow access road to main transmission line.
3. Production facilities will be painted to blend in with the natural surroundings.
4. Areas not used for well use will be restored within 90 days of completion.
5. Reserve pits will be lined to ensure pit integrity. They will be short lined to 15' x 60' Reserve pit to hold circulation fluids.
6. Operator will adhere to BLM Surface Stipulations. Comments: Large Cuts and US well Impacts will occur for this well.



Bear Loath
#33-16

TWELVE POINT PLAN OF DEVELOPMENT
FOR SURFACE USE FOR THE
BEARTOOTH OIL & GAS COMPANY

FEDERAL NO. 33-16
SW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 33-T16S-R25E, SLBM
Grand County, Utah

1. Existing Roads - a legible map showing:

- A. Proposed well site as staked. (Actual staking should include two each 200-foot directional reference stakes.): See Survey Plat - Plat #1
- B. Route and distance from nearest town or locatable reference point to where well access route leaves main road: This wellsite is approximately 20 miles NW of Mack, Colorado. It is reached by going 9.5 mi. west of Mack on Old US 6 & 24, then 16.2 miles up the San Arroyo Road to the gas plant, then 4.2 miles up San Arroyo hill, then left and go 2.4 miles south on the existing road to the beginning of the 1.7 miles of planned new construction.
- C. Access road(s) to location color-coded or labeled: See Map #1 and Vicinity Map #3
- D. If exploratory well, all existing roads within a 3-mile radius (including type of surface, conditions, etc.): N/A
- E. If development well, all existing roads within a 1-mile radius of wellsite: All existing roads are shown on Map #1
- F. Plans for improvement and/or maintenance of existing roads: Occasional blading is done by producing and pipeline companies in the area. Beartooth Oil & Gas Company will do maintenance blading on the existing road.

2. Planned Access Roads See Map No. 1

Map showing all necessary access roads to be constructed or reconstructed, showing:

- (1) Width & Disturbance: The road will be constructed with an 18 foot driving surface. The disturbed width will vary with topography from 30 to 120 feet.
- (2) Maximum grades: Maximum grade will be 8% except for two short 12% pitch grades where rims are crossed.
- (3) Turnouts: Turnouts will be constructed so that they are inter-visible as topography dictates.
- (4) Drainage design: Natural drainage; road will follow contour of the land.
- (5) Location and size of culverts and brief description of any major cuts and fills: No culverts are planned. Water will be drained via road ditches and water dips.
- (6) Surfacing material: Native material only; no material will be brought in.
- (7) Necessary gates, cattleguards, or fence cuts: No fences are impacted by this road.
- (8) New or reconstructed roads are to be center-line flagged at time of location staking: The road is flagged.

3. Location of Existing Wells

Two-mile radius map if exploratory, or 1-mile radius map if development well showing and identifying existing (see Well Map No. 2)

- (1) Water wells: None
- (2) Abandoned wells: One
- (3) Temporarily abandoned wells: None
- (4) Disposal wells: None
- (5) Drilling wells: None - One Location
- (6) Producing wells: Two
- (7) Shut-in wells: None
- (8) Injection wells: None
- (9) Monitoring or observation wells for other resources: None

4. Location of Existing and/or Proposed Facilities

A. Within 1-mile radius of location show the following existing facilities owned or controlled by lessee/operator:

- 1. Tank batteries: None
- 2. Production facilities: Separators and meter runs at wells shown on Map No. 2.
- (3) Oil gathering lines: None
- (4) Gas gathering lines: See Map NO. 1 - all lines are buried.
- (5) Injection lines: None
- (6) Disposal lines: None

(Indicate if any of the above lines are buried.)

B. If new facilities are contemplated, in the event of production, show:

- (1) Proposed location and attendant lines by flagging if off of well pad:
Gathering system not designed at this time.
- (2) Dimensions of facilities: See Plat No. 4. Separator 5' x 10', meter run 5' x 8', on drillsite pad and painted green to blend with the environment.
- (3) Construction methods and materials: No materials necessary. All lines will be coated, wrapped, and buried. See Plat No. 4.
- (4) Protective measures and devices to protect livestock and wildlife: A 10' x 10' water pit within 50' of the separator will be fenced. A metal guard or fiberglass shelter will be around the wellhead.

4. Location of Existing and/or Proposed Facilities (Continued)

- C. Plan for rehabilitation of disturbed areas no longer needed for operations after construction is completed: Upon completion of the drilling of this well, all pits will be backfilled and top soil replaced and re-contoured back to original terrain. Upon abandonment, all disturbed areas, including the location and access road, will be re-contoured, ripped or scarified as needed, and re-vegetated using a seed formula as specified by the BLM. Seeding will be done in the fall.
- _____
- _____
- _____

5. Location and Type of Water Supply

- A. Show location and type of water supply either on map or by written description: The water supply for this well will be West Salt Creek. The pick up point will be 3 miles west of Mack, Colorado in Section 30-T9S-R103W, 6th PM.
- _____
- _____
- B. State method of transporting water and show any roads or pipelines needed: Water will be transported by truck over the existing roadways and proposed access.
- _____
- C. If water well is to be drilled on lease, so state. (No APD for water well is necessary, however, unless it will penetrate potential hydrocarbon horizons): No water well is to be drilled.
- _____
- _____

6. Source of Construction Materials

- A. Show information either on map or by written description: No construction materials will be used other than native materials.
- _____
- _____
- B. Identify if from Federal or Indian land: Not applicable.
- _____
- C. Describe where materials, such as sand, gravel, stone, and soil material are to be obtained and used: Soil from cuts will be used for fills. No outside material will be brought in.
- _____
- _____
- D. Show any needed access roads crossing Federal or Indian lands under Item 2: N/A
- _____
- _____

7. Methods for Handling Waste Disposal

Describe methods and location of proposed containment and disposal of waste material, including:

- (1) Cuttings: Cuttings will be buried in the reserve pit. The reserve pit will be constructed to fit the topography. It will be fenced on 3 sides during drilling and closed off on the 4th side at rig release.
- _____
- (2) Drilling fluids: Drilling fluids will be handled in the reserve pit and left to evaporate.
- _____
- (3) Produced fluids (oil, water): Any fluids produced during drilling test or while making production test will be collected in a test tank. If a test tank is not available during drilling, fluids will be handled in reserve pit. Any spills of oil, gas, salt water or other noxious fluids will be cleaned up and removed. If well is productive, produced water will be disposed of onsite for 30 days only, or 90 days with permission of District Supervisor. After that time, application will be made for approval of permanent disposal method in compliance with NTL-2b, and the rules and regulations of the State of Colorado.
- _____
- _____

7. Methods for Handling Waste Disposal (Continued)

- (4) Sewage: Human waste will be disposed of in chemically treated sanitary pits.
- (5) Garbage and other waste material (trash pits should be fenced with small mesh wire to prevent wind scattering trash before being burned or buried): Garbage, waste, salts and other chemicals produced during drilling or testing will be handled in a trash cage. The trash cage will be totally enclosed with small mesh wire to prevent wind scattering trash before being removed. Reserve pit will be fenced on 3 sides during drilling and closed off on the 4th side at the time of rig release.
- (6) Statement regarding proper cleanup of wellsite area when rig moves out: Drilling fluid in pit, which will be very minimal due to air drilling, will be left to dry, if necessary. After pit area is sufficiently dry, cuttings will be pushed into pit and sub-soil placed on top of any remaining fluid and cuttings; then top soil will be used to cover both pit and location area.

8. Ancillary Facilities

Identify all proposed camps and airstrips on a map as to their location, area required and construction methods. (Camp center and airstrip center lines to be staked on the ground): No air strip, camp or other facilities will be built during drilling of this well.

9. Wellsite Layout

A plat (not less than 1" = 50') showing:

- (1) Cross sections of drill pad with cuts and fills: See Plat No. 2-A
- (2) Location of mud tanks, reserve, burn and trash pits, pipe racks, living facilities, and soil material stockpiles: See Plats Nos. 2 & 3
The location will be constructed as topography dictates.
- (3) Rig orientation, parking areas and access roads: See Plat No. 3
- (4) Statement as to whether pits are to be lined or unlined. (Approval as used in this section means field approval of location. All necessary staking of facilities may be done at the time of field inspection. A registered surveyor is not mandatory for such operations): Pits will be unlined.

10. Plans for Restoration of Surface

State restoration program upon completion of operations, including:

- (1) Backfilling, leveling, contouring and waste disposal; segregation of spoils materials as needed: If well is abandoned, site will be restored to original condition as nearly as possible. Backfilling, levelling, and contouring are planned as soon as all pits have dried. Waste disposal and spoils materials will be buried or hauled away immediately to an approved sanitary land fill after drilling is completed. If production is obtained, the unused area will be restored as soon as possible.
- (2) Revegetation and rehabilitation, including access roads (normally per BLM recommendations): The soil banked material will be spread over the area. Re-vegetation will be accomplished by planting mixed grasses as per BLM specifications.
- (3) Prior to rig release, pits will be fenced and so maintained until clean-up: Three sides of the reserve pit will be fenced during drilling and closed off on the 4th side following rig release to prevent livestock or wildlife from entering; and the fencing will be maintained until leveling and cleanup are accomplished.

10. Plans for Restoration of Surface (Continued)

- (4) If oil on pit, remove oil or install overhead flagging: If any oil is on the pits and is not immediately removed or burned after operations cease, the pit containing the oil or other adverse substances will be flagged overhead or covered with wire mesh.
- (5) Timetable for commencement and completion of rehabilitation operations: The rehabilitation operations will begin immediately after the drilling rig is removed. Removal of oil or other adverse substances will begin immediately or area will be flagged and fenced. Other cleanup will be done as needed. Planting and re-vegetation is considered best in the fall, between Sept. 15 and Nov. 15.

11. Other Information

General description of:

- (1) Topography, soil characteristics, geologic features, flora and fauna: The topography is very rough as that common to the Bookcliffs. Soils are shallow and rocky. Vegetation consists of pinon-juniper forest with a sparse grass understory. Mule deer, coyotes and native birds inhabit the area.
- (2) Other surface use activities and surface ownership of all involved lands: All land involved with the location and new construction is Federal land.
- (3) Proximity of water, occupied dwellings, archeological, historical or cultural sites: The closest occupied dwelling is the San Arroyo Gas Plant 2.5 miles NE of the location. The nearest permanent water is in East Canyon 5 miles West of the location.
- A cultural resource survey of this well and road has been completed and the report is filed with the BLM in Moab, Utah.

12. Lessee's or Operator's Representative

Include the name, address and phone number of the lessee's or operator's field representative who is responsible for assuring compliance with the approved surface use and operations plan:

James G. Routson
Beartooth Oil & Gas Company
P. O. Box 2564
Billings, MT 59103
Office Ph: 406-259-2451
Home Ph: 406-245-8797

Ken Currey
Box 1491
Fruita, CO 81521
Mobile Phone: 303-245-3660 Unit 5858
Home Ph: 303-858-3257

13. Certification

The following statement is to be incorporated in the plan and must be signed by the lessee's or operator's field representative who is identified in Item No. 12 of the plan:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Beartooth Oil & Gas Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

5/25/82
Date


Ken Currey
Ken Currey

WELL CONTROL PLAN

1. Surface Casing: 9-5/8" O.D., 32.3 #/ft., Grade H-40, Short T&C, set at 200' or deeper, cemented with pump and plug method back to the surface or bottom of cellar.
2. Casinghead Flange: 9-5/8" x 10-3/4" - 900 series casinghead with two 2" 2000 psi L.P. outlets.
3. Intermediate Casing: 7", 20#, K-55, set at 1920' and cemented with 150 sacks. The intermediate spool will be 10" - 900 x 10" - 900 series with two 2" 2000 psi L.P. outlets.
4. Blowout Preventor: A 10" 3000 psig W.P. double gate hydraulic shaffer BOP (or equivalent) with drill pipe rams and blind rams. All fill, kill and choke lines will be minimum of 2" 2000 psi W.P. A Grant rotating head will be used while air and mist drilling. A new rubber will be installed prior to drilling through the Dakota. BOP's will be worked daily. Blind rams will be checked during trips. BOP's will be tested to 2000 psi prior to drilling shoe joint on surface casing and intermediate casing.
5. Auxiliary Equipment: (a) Drill pipe floats will be allowed at contractor's discretion. (b) Visual monitoring of air returns will be maintained. (c) Upper kelly cock will be used. (d) Stabbing valve will be kept on floor.
6. Anticipated bottom hole pressure is less than 1500 psi at 5900' or a gradient of .254 psi/ft or less. No abnormal temperatures or hydrogen sulfide gas is sufficient.

BEARTOOTH OIL & GAS COMPANY

By:

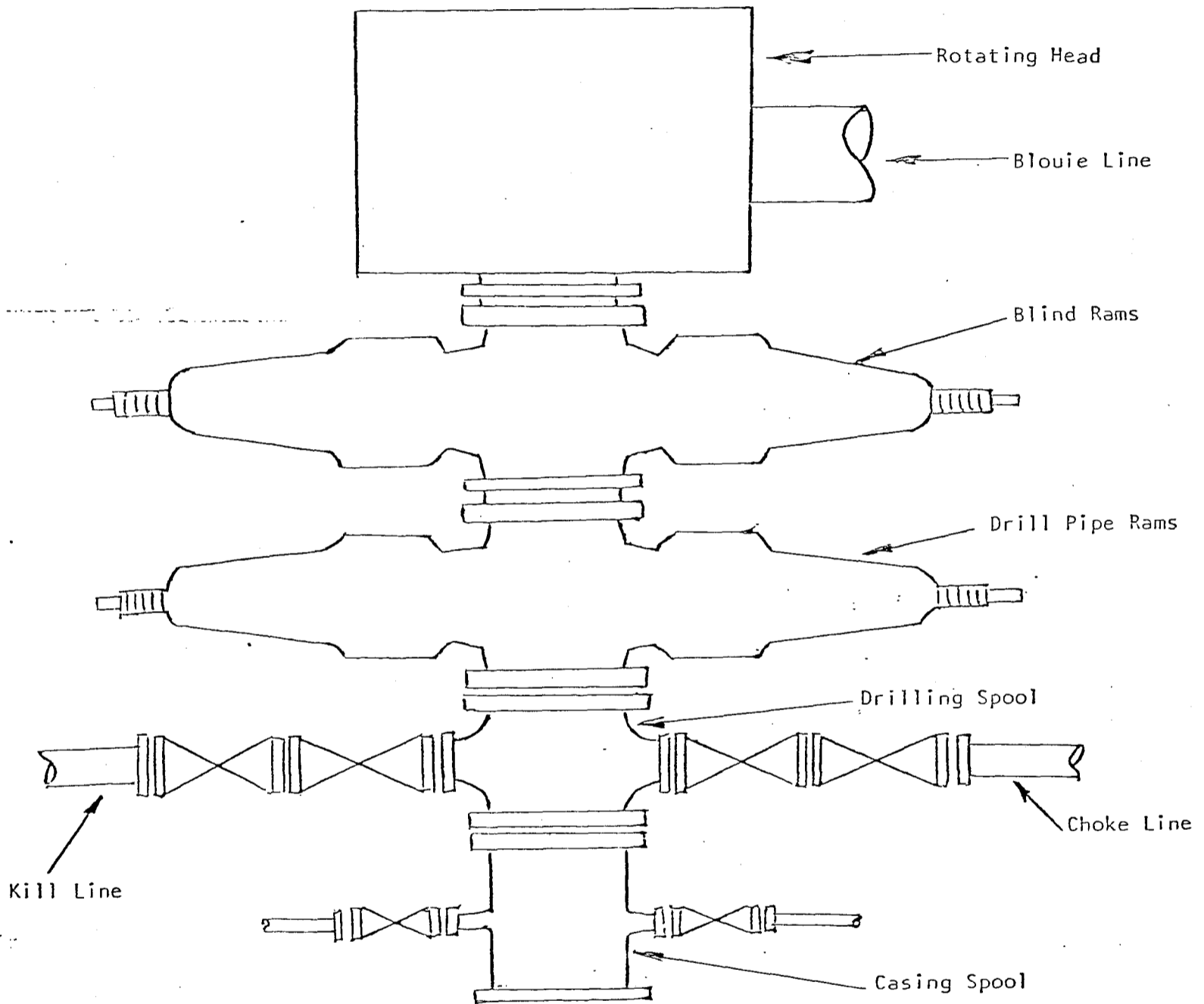


James G. Routson, Petroleum Engineer

SCHEMATIC OF BOP STACK

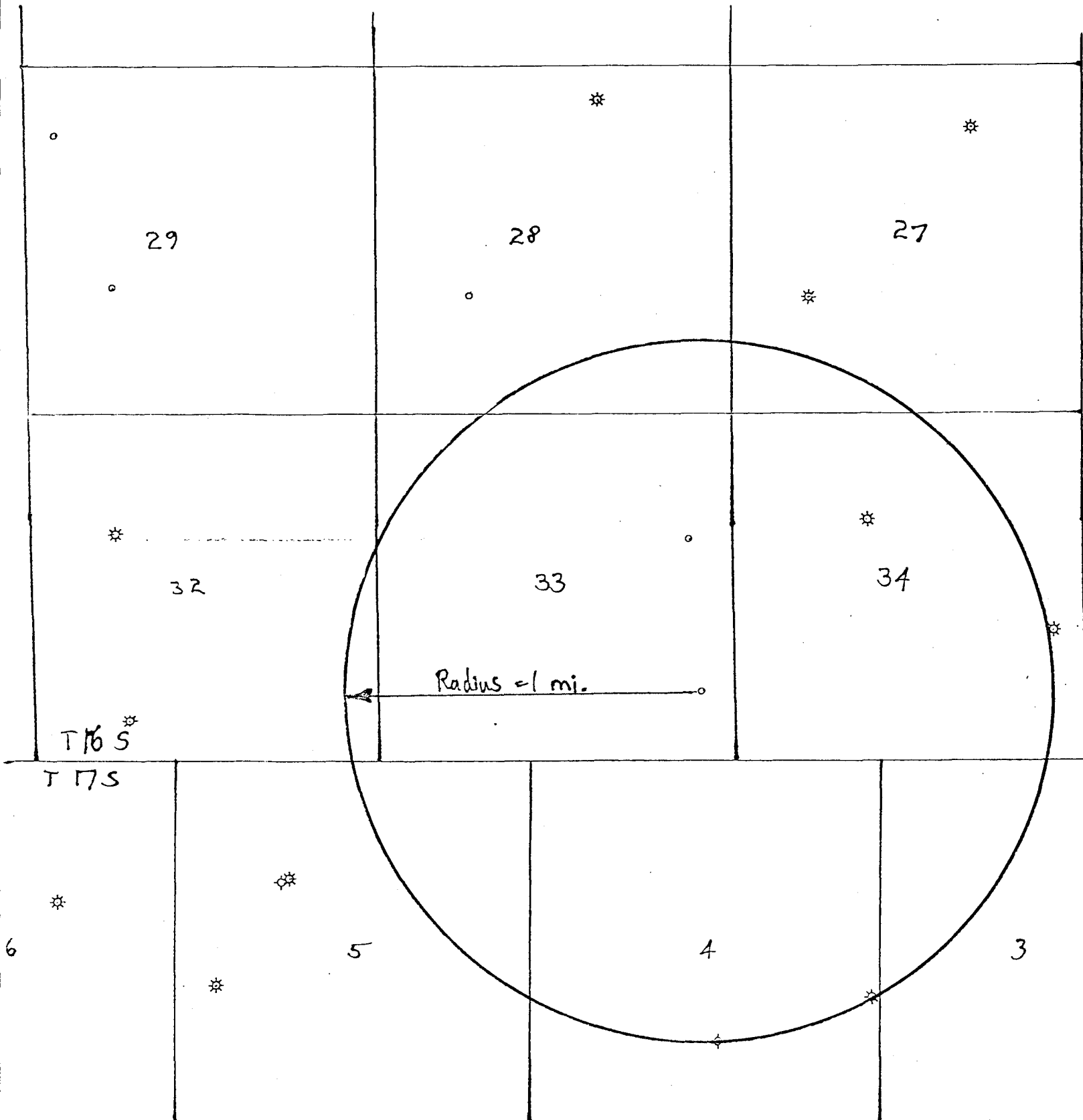
Air drilled wells using 900 series wellhead equipment.

Interval from 200' to total depth.

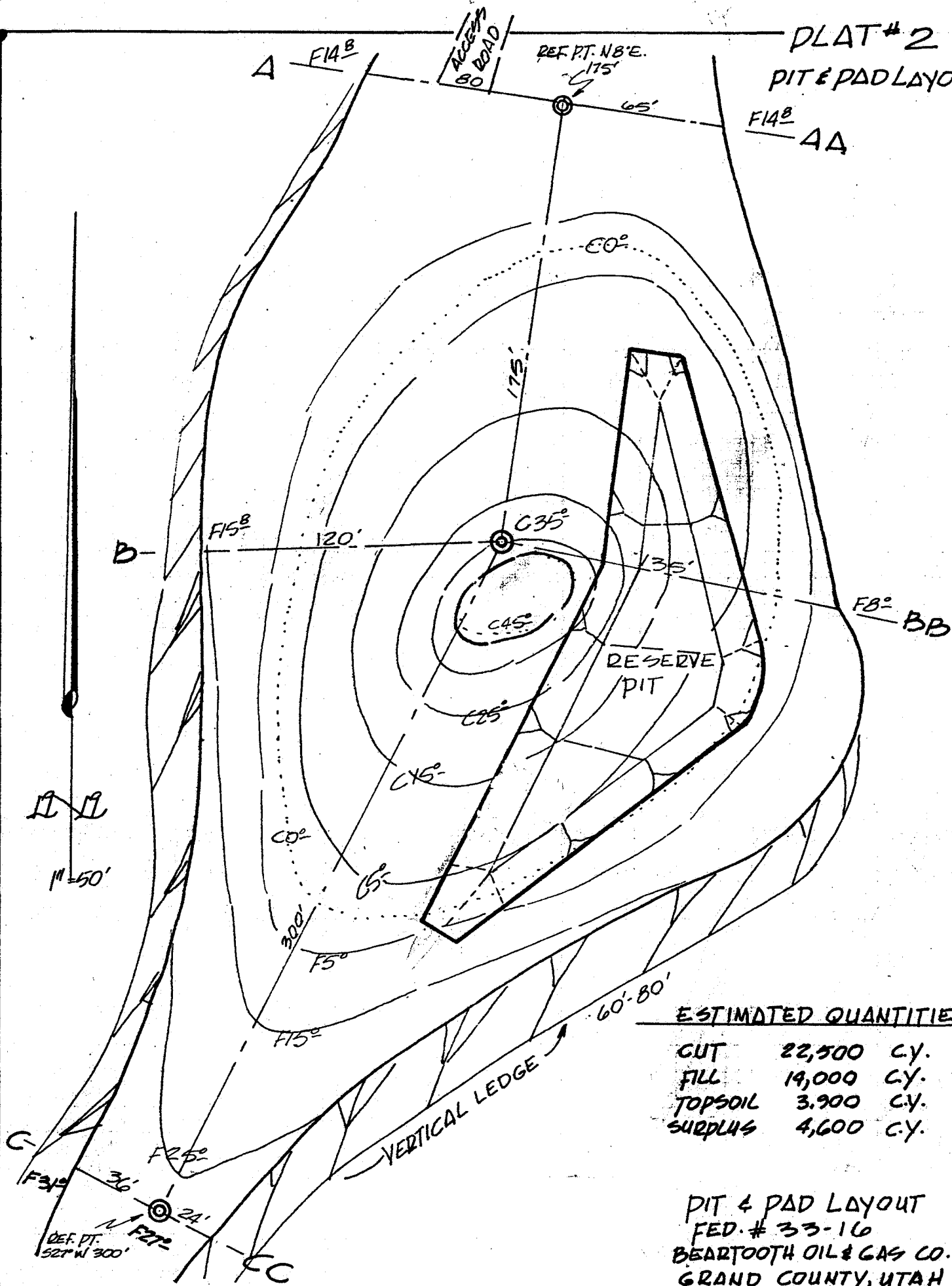


WELL MAP

MAP NO. 2



PLAT # 2 PIT & PAD LAYOUT

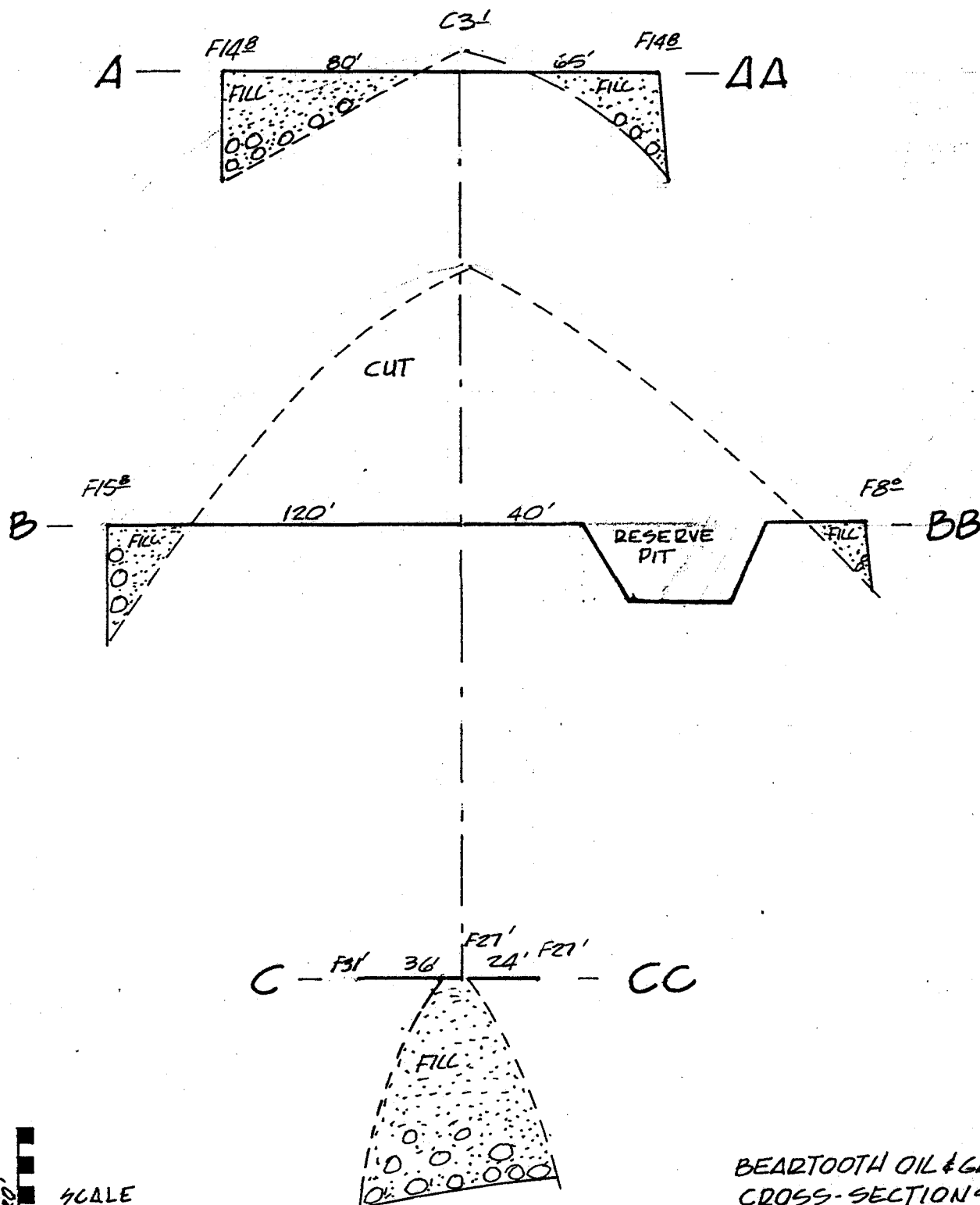


ESTIMATED QUANTITIES

CUT	22,500	C.Y.
FILL	19,000	C.Y.
TOPSOIL	3,900	C.Y.
SURPLUS	4,600	C.Y.

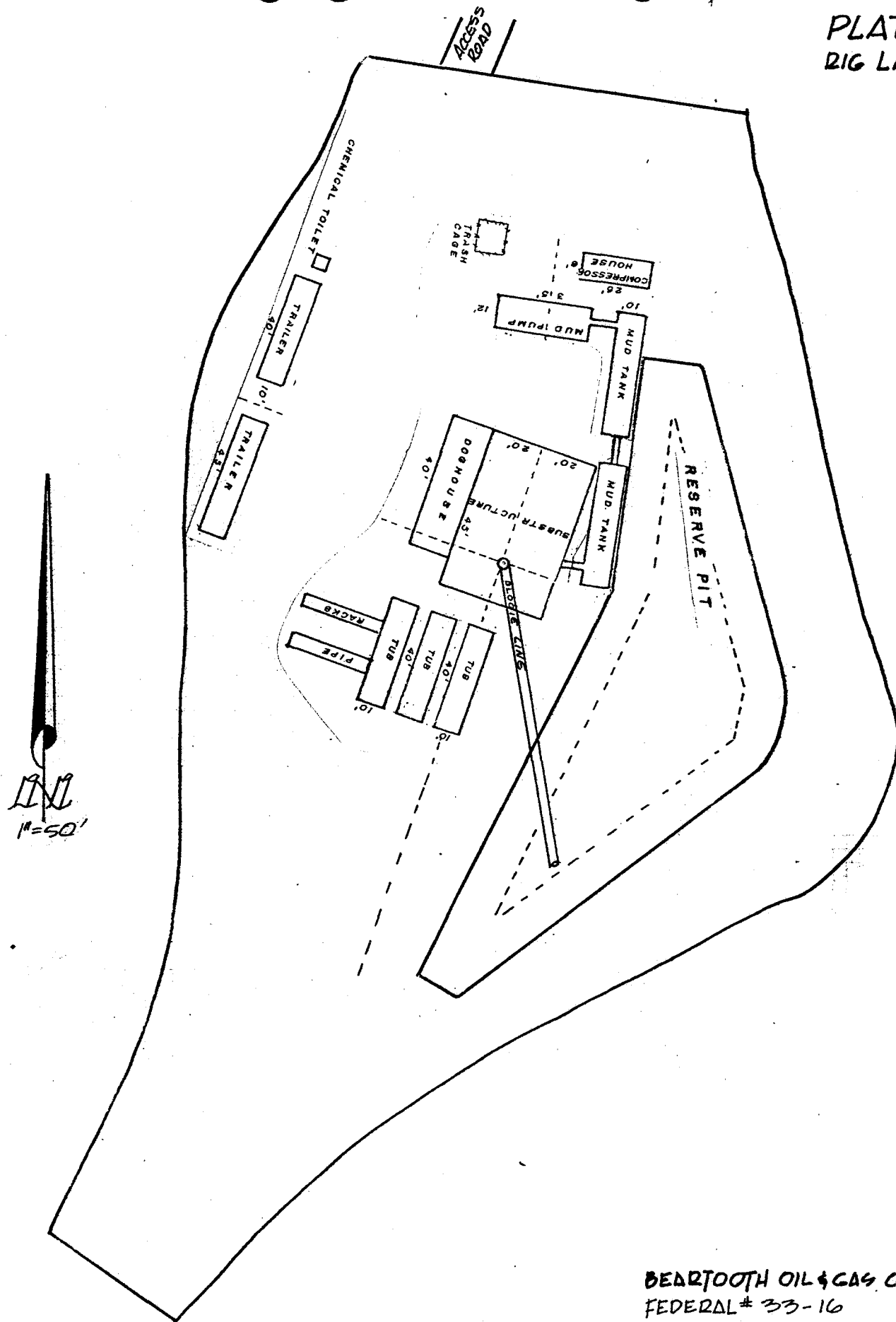
PIT & PAD LAYOUT
FED. # 33-16
BEARTOOTH OIL & GAS CO.
GRAND COUNTY, UTAH

PLAT #2A

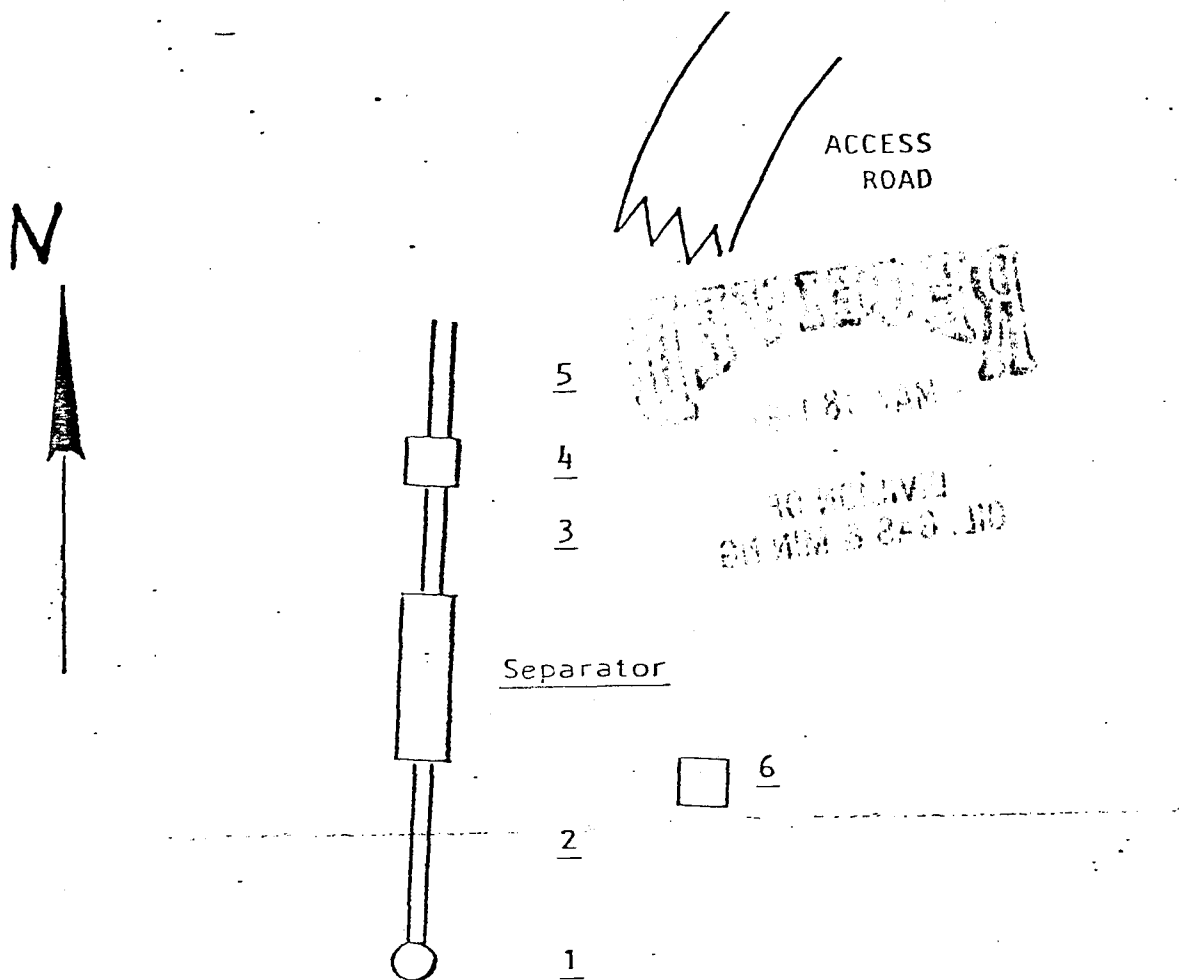


BEARTOOTH OIL & GAS CO.
CROSS-SECTIONS
FEDERAL # 33-16

PLAT #3
RIG LAYOUT



BEAR TOOTH OIL & GAS CO.
FEDERAL # 33-16
RIG LAYOUT



1. Wellhead will be a 6" - 900 series flanged top. Tubing head will be 10" - 900 x 6" - 3000 psi with two 2" 3000 psi flanged valves. Tree will be 2" screwed x 3000 psi W.P.
2. Line between wellhead and separator will be approximately 100 feet in length and constructed of 2-3/8" .218 wall seamless, welded, wrapped and buried approximately 5 feet deep.
3. Line between separator and meter will be 4" or 4.028 OD seamless, welded, coated, wrapped and buried, and will be approximately 25 feet in length.
4. Meter run will be American 4" run, 500 psi static rating, 100" of water differential rating.
5. Gathering system not designed at this time.
6. Pit, if necessary, will be 10' x 10', enclosed by dikes and fenced.

LIST OF WELL FOR MAP NO. 2

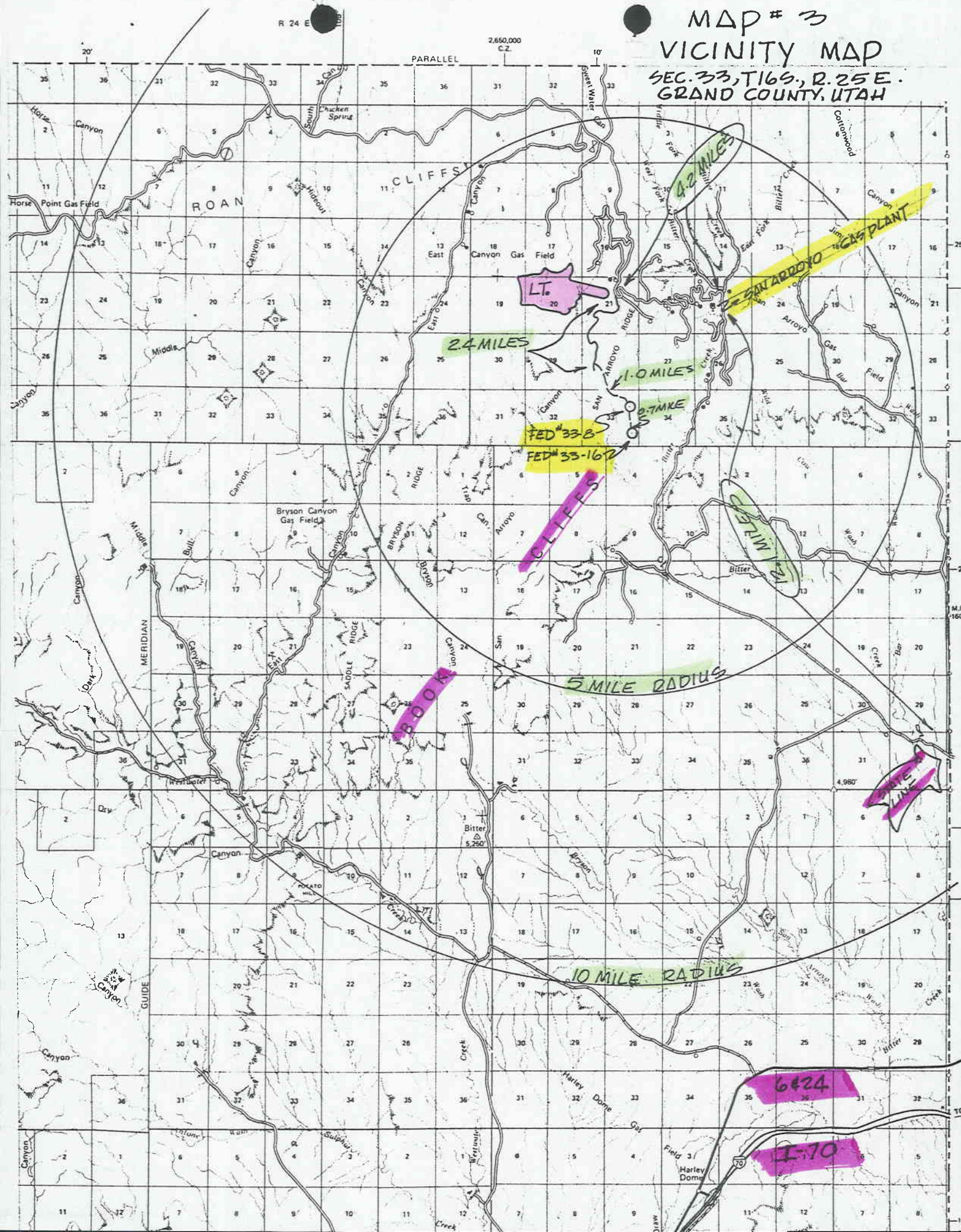
T16S-R25E

NW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 27	Arco No. 9, San Arroyo Unit
NE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 27	Arco No. 27 Arco
NE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 28	TXO Prod. #1 Grynberg-Federal
NW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 28	TXO Prod. #1 Nicor-Federal
NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 29	TXO Prod. #1 Lauck-Federal
NW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 29	TXO Prod. #1 Lauck-Federal
SE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 32	Northwest Expl. #1 Utah State
SW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 32	Northwest Expl. #2 Utah State
SE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 33	Beartooth Federal #33-8
SE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 33	Beartooth Federal #33-16
NE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 34	Texas Oil & Gas #1 Aro Federal-D
SE $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 34	Texas Oil & Gas #2 Valentine-Federal

T17S-R25E

NE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 4	Hancock #10 Hancock-Govt.
SW $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 4	Alpine #1 Wild Cow-Govt.
SE $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 5	TXO Prod. #1 Hancock-Federal
SE $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 5	TXO Prod. #1-X Hancock-Federal
NW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 5	TXO Prod. #2 Hancock-Federal
SE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 6	Palmer Oil Federal 6-14
SW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 6	Tenneco Federal 6-7

SEC. 33, T16S., R. 25 E.
GRAND COUNTY, UTAH



MAP # 3A
VICINITY MAP
MESA COUNTY, COLO.

G A R F I E L D
R. 104 W.

T. 8 S.

Y

T

N

U

T. 9 S.

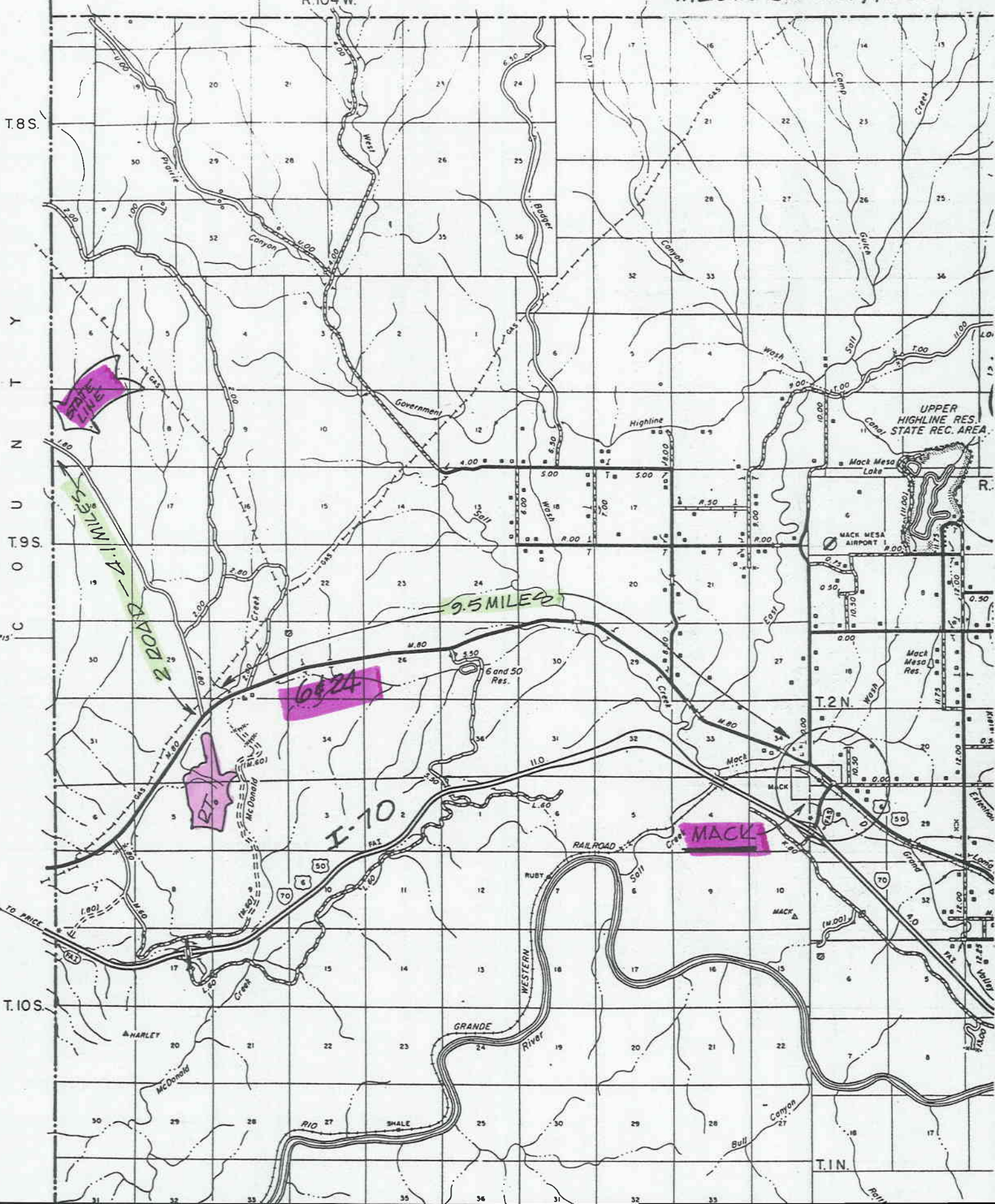
O

39°15'

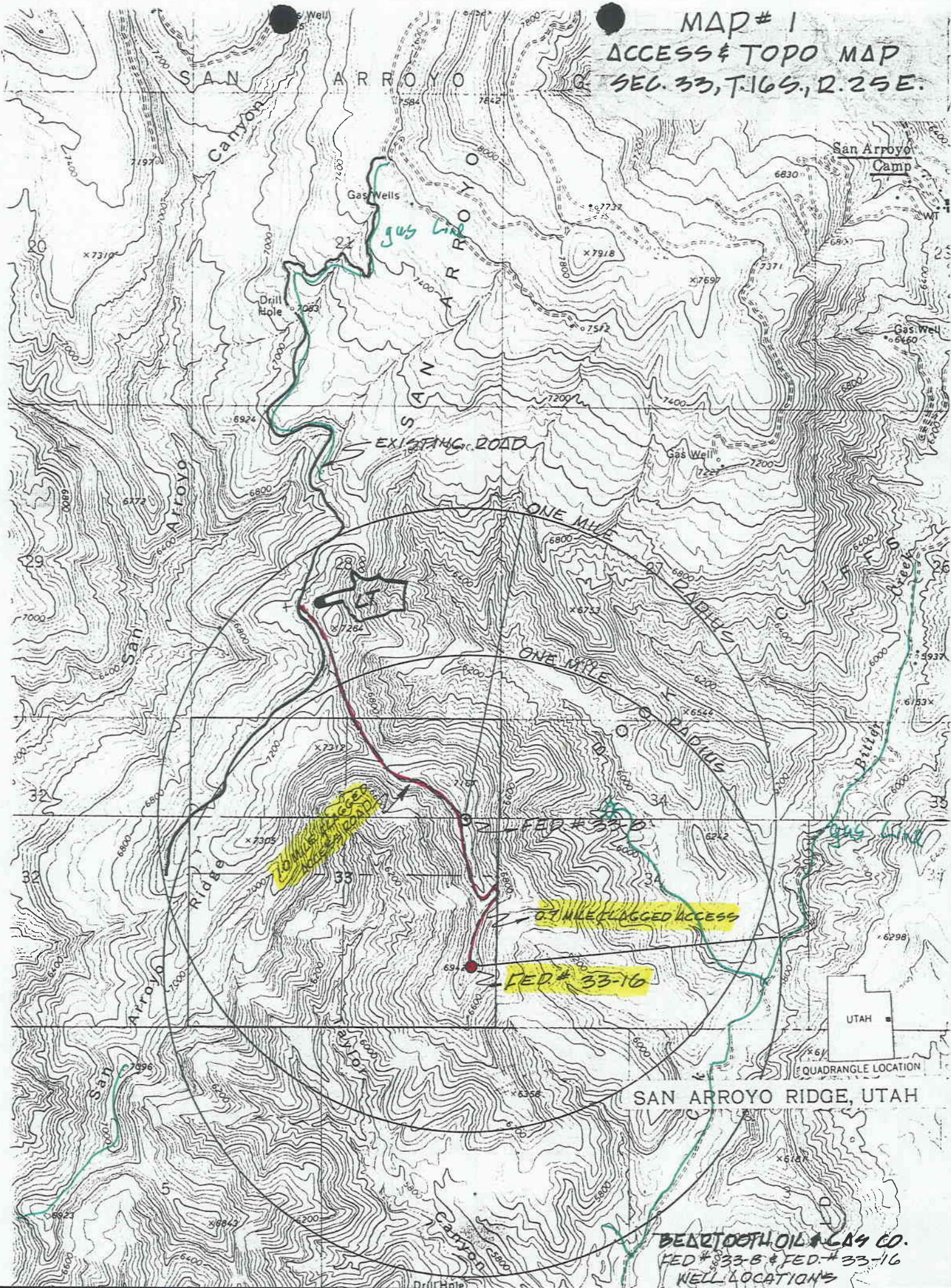
C

T. 10 S.

I



MAP # 1
ACCESS & TOPO MAP
SEC. 33, T.16S, R.25E.



SAN ARROYO RIDGE, UTAH

BEERTOOTH OIL & GAS CO.
FED # 33-8 & FED # 33-16
WELL LOCATIONS

✓

** FILE NOTATIONS **

DATE: June 7, 1982
OPERATOR: Beatooth Oil & Gas Company
WELL NO: Federal #33-16
Location: Sec. 33 T. 11oS R. 25E County: Grand

File Prepared: ☒

Entered on N.I.D: ☐

Card Indexed: ☐

Completion Sheet: ☐

API Number 43-019-309162

CHECKED BY:

Petroleum Engineer: on order 149-2B + unorthodox location due to topographic constraints.

Director: _____

Administrative Aide: As Per Order Below

APPROVAL LETTER:

Bond Required: ☒

Survey Plat Required: ☐

Order No. 149-2B, 3-216-80

O.K. Rule C-3 ☐

Rule C-3(c), Topographic Exception - company owns or controls acreage within a 660' radius of proposed site ☐

Lease Designation ☒ F&D

Plotted on Map ☐

Approval Letter Written ☒

Hot Line ☒

P.I. ☒

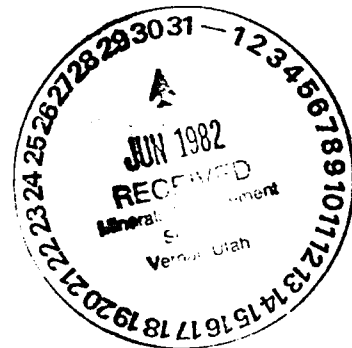


United States Department of the Interior

IN REPLY REFER TO

3109
(U-068)

BUREAU OF LAND MANAGEMENT
Moab District
Grand Resource Area
P.O. Box M
Moab, Utah 84532



JUN 28 1982

Memorandum

To: Oil & Gas Office, Minerals Management Service
P.O. Box 1037
Vernal, Utah 84078

From: Area Manager, Grand

Subject: Approval to Drill U-51052
Beartooth 33-16
Section 33, T. 16 S., R. 25 E.
Grand County, Utah

On June 23, 1982 a representative from this office met with Cody Hansen, Minerals Management Service (MMS), and Ken Currey, agent of the Beartooth Co. for an inspection of the above referenced location. Subject to the attached conditions and written approval from MMS, I am approving the surface management portion of the Application for Permit to Drill.

The archaeological requirement has been fulfilled on this location. No threatened or endangered flora or fauna are indicated in the area.

Please forward the enclosed information to Beartooth Oil & Gas Co.

Enclosure (3)
1-Reclamation Procedures
2-Seed Mixture
3-Suggested Colors - Production Facilities

ADDITIONS TO THE MULTIPOINT
SURFACE USE PLAN
AND
RECLAMATION PROCEDURES

CONSTRUCTION

1. The operator or his contractor will contact the Grand Resource Area Office in Moab, Utah (phone (801) 259-6111) 48 hours prior to beginning any work on public land.
2. The dirt contractor will be furnished with an approved copy of the surface use plan and any additional BLM stipulations prior to any work.
3. Use of water from sources such as wells, springs, streams or stock ponds for activities associated with this well will be approved, prior to use, by the agency or individual holding the water right.
4. If subsurface cultural material is exposed during construction, work in that spot will stop immediately and the Grand Resource Area Office will be contacted. All employees working in the area will be informed by the operator that they will be subject to prosecution if they are caught disturbing archaeological sites or picking up artifacts. Salvage or excavation of identified archaeological sites will only be done if damage occurs.
5. Improvement to the existing road will not be necessary. The total disturbed width allowed will be as is. The allowable travel surface will be as is.
- . New road construction will be limited to an allowable travel surface width of 18 feet. For construction design and survey refer to Class III road standards attachment. Please give this office 24 hour advance notice after the road and location are finished but before construction equipment has left location.

Trees will be stockpiled on the uphill side of the road, separate from the topsoil.

Topsoil will be saved along the route between the trees and the road.

Surface disturbance and vehicular travel will be limited to the approved location and approved access route. Any additional area needed will be approved in advance.

Surfacing material will not be placed on the access road or location without prior BLM approval.

6. Location: Satisfactory as planned with the following changes: reduce pit, use for circulation fluids only.
7. As much as possible soil material will be removed from the location and stockpiled separate from the trees on the south side of the location. Topsoil along the access will be reserved in place.

Trees will be stockpiled separate from the topsoil and excess material.

8. The reserve pit will be lined with commercial bentonite or plastic plastic sufficient to prevent seepage. Keyway. The reserve pit banks will be 1.5 to 2.0 feet above pad and constructed in 8 inch lifts, machinery compacted, and sufficiently wide for equipment to pass over.
9. Three sides of the reserve pit will be fenced before drilling starts. The fourth side will be fenced as soon as the drilling is completed. The fence will be kept in good repair while the pit is drying. The fence will be 4 or 5 strand barbed wire.

PRODUCTION

1. The reserve pit and that portion of the location and access road not needed for production or production facilities will be reclaimed in the methods described in the rehabilitation section. All of the stockpiled topsoil will be used in reclaiming the unused areas.
2. All above-ground production facilities will be painted using the attached suggested colors.
3. The access will be to the design of a Class III road.
4. Any and all burning will require a permit from the State Division of Forestry and Lands Office in Moab.

REHABILITATION

1. Immediately upon completion of drilling, the location and surrounding area will be cleared of all debris resulting from the operation. All trash will be disposed of in the trash cage. Non-burnable debris will be hauled to a local town dump site.
2. The operator or his contractor will contact the Grand Resource Area BLM Office in Moab, Utah, phone (801) 269-6111, 48 hours prior to starting rehabilitation work that involves earthmoving equipment and upon completion of restoration measures.
3. Before any dirt work to restore the location takes place, the reserve pit must be completely dry and any trash (barrels, metal etc.) it contains must be removed from public lands.
4. All disturbed areas will be recontoured to blend as nearly as possible with the surrounding area.
5. The stockpiled topsoil will be evenly distributed over the disturbed area.
6. All disturbed areas will be scarified with the contour to a depth of 6 inches. Do not smooth pads out, leave a roughened surface.
7. Seed will be (broadcast/drilled) at a time to be specified by the BLM with the following seed prescription. When broadcast seeding, a harrow or some such implement will be dragged over the seeded area to assure seed cover.
8. After seeding is complete the stockpiled trees will be scattered evenly over the disturbed areas and walked down with a dozer. The access will be blocked to prevent any use/vehicle use.
9. Waterbars will be used as needed on all sloping surfaces as shown below:

<u>Grade</u>	<u>Spacing</u>
2%	200 ft. spacing
2-4%	100 ft. spacing
4-5%	75 ft. spacing
+5%	50 ft. spacing

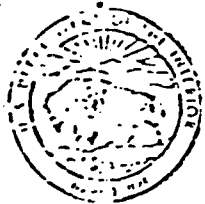
10. Due to the tight area and excessive slopes, BLM recommends the use of a backhoe to recontour pad/road. Hand seeding will also be recommended.

SEED MIXTURE

<u>Species</u>		<u>lb/aces</u>
<u>Grasses</u>		
Agropyron inerme	Beardless bluebunch	1
Oryzopsis hymenoides	Indian ricegrass	1
Poa fendleriana	Muttongrass	1
<u>Forbs</u>		
Medicago sativa	Alfalfa	1
Penstemon palmeri	Palmer penstemon (Pind wild snap dragon)	1
<u>Shrubs</u>		
Cercocarpus montanus	Birchleaf mountain-mahogany (True mahogany)	1
Purshia tridentata	Antelope bitterbrush	<u>1</u>
		7 lbs/acre

Broadcast seed will be applied at double the above rate.

Seeding will be done in the fall of the year (Oct. - Dec.)



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

SUGGESTED COLORS TO PAINT OIL & GAS PRODUCTION FACILITIES

Cisco Desert and Flats below the Bookcliffs:

Dynasty Green	(Sears)
Tumbleweed	(Pratt & Lambert)
Desert Tan	-----
Sage Gray	(Pratt & Lambert)

Bookcliffs Region:

Sage Gray	(Pratt & Lambert)
Sea Life	(Pratt & Lambert)
Dynasty Green	(Sears)

Similar hues other than the ones mentioned above must be approved by the Grand Resource Area Manager.

July 7, 1982

Beartooth Oil & Gas Company
P.O. Box 2564
Billings, Montana 59103

RE: Well No. Federal #33-16
Sec. 33, T16S, R25E
Grand County

Insofar as this office is concerned, approval to drill the above referred to gas well is hereby granted in accordance with the Order issued in Cause No. 149-2B, dated 03-26-80. However, this approval is conditional in that you furnish this office with a letter detailing the topographic constraints and also obtain the approval of the offset operator in Section 34.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

CLEON B. FEIGHT
Office: 533-5771
Home: 466-4455

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-019-30962.

Sincerely,


RONALD J. FIRTH
CHIEF PETROLEUM ENGINEER

RJF:SC
cc: Minerals Management Service
Enclosure

BEARTOOTH OIL & GAS COMPANY

P.O. Box 2564
Billings, Montana 59103
(406) 259-2451

July 8, 1982

Division of Oil, Gas & Mining
4241 State Office Building
Salt Lake City, Utah 84114

Attention: Mr. Ron Firth

Re: Federal No. 33-8
SE $\frac{1}{4}$ NE $\frac{1}{4}$ Section 33-16S-25E
Federal No. 33-16
SE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 33-16S-25E
Grand County, Utah

Dear Mr. Firth:

Beartooth Oil & Gas Company hereby requests approval of the above referenced well permit applications for both topographic and geologic reasons.

Topographically, a narrow ridge bisects the E $\frac{1}{2}$ E $\frac{1}{2}$ of Section 33, and another ridge diagonally bisects the NE $\frac{1}{4}$ of Section 33. These two ridges provide the only suitable areas for locations.

Geologically, subsurface control indicates a thick Dakota sand development in the E $\frac{1}{2}$ of Section 33 thinning drastically in the W $\frac{1}{2}$ of Section 33. Furthermore, a location in the NW $\frac{1}{4}$ would be about 200' structurally lower than the NE $\frac{1}{4}$, and 300' lower than the SE $\frac{1}{4}$. We feel structure is important in this area, and therefore, the locations we have submitted are the most favorable from both aspects.

The Federal No. 33-16 is the only well too close to the lease line, and the offset operator, TXO Production Corporation is sending you a letter indicating they have no objection to our location.

If you have any questions, please call.

Yours very truly,

BEARTOOTH OIL & GAS COMPANY

James G. Routson
James G. Routson
Petroleum Engineer

JGR/gb

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ well ☐ gas ☒ well ☐ other
2. NAME OF OPERATOR
Beartooth Oil & Gas Company
3. ADDRESS OF OPERATOR
P. O. Box 2564, Billings, Montana 59103
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1041' FSL, 510' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH: same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	<input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>	<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>	<input type="checkbox"/>
(other) Location Moved		

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The location for this well has been moved 60' due West (510' FEL) to comply with Spacing Order #149-2B. A new survey plat will be forwarded.

The spacing unit for this well will be the S $\frac{1}{2}$ of Section 33.

**APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING**

DATE: 2/16/82
BY: [Signature]

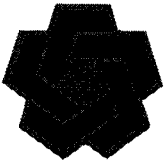
Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED James G. Routson TITLE Petroleum Engineer DATE 7/9/82

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY: _____



STATE OF UTAH
NATURAL RESOURCES & ENERGY
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

July 14, 1982

Beartooth Oil & Gas
Fed. #33-16, S. 33, T. 16 S, R. 25 E
Grand County

NOTE TO FILE:

On the above date, a complaint was issued by TXO Production Company in regard to this well. The footage location was 450' FEL. This location is being changed to 510' FEL as per telephone conversation with Jim Routson and Cleon Feight. Mr. Paul Urban, of TXO Production Co., was notified by phone of the location change. A new survey plat is being mailed to this Division on this date.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☐ gas well ☒ other ☐
2. NAME OF OPERATOR
Beartooth Oil & Gas Company
3. ADDRESS OF OPERATOR
P. O. Box 2564, Billings, Montana
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1041' FSL, 510' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) ☐

SUBSEQUENT REPORT OF:

☐
☐
☐
☐
☐
☐
☐
☐

5. LEASE
U-51052
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME
Federal
9. WELL NO.
33-16
10. FIELD OR WILDCAT NAME
San Arroyo
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
SE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 33-16S-25
12. COUNTY OR PARISH
Grand
13. STATE
Utah
14. API NO.
15. ELEVATIONS (SHOW DF, KDB, AND WD)
6934' GL, 6950' KB

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

New survey plats are enclosed - location had been moved 60' due West and the rig rotated 180° for APD approval.

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MININGDATE: 8/4/82
BY: [Signature]

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

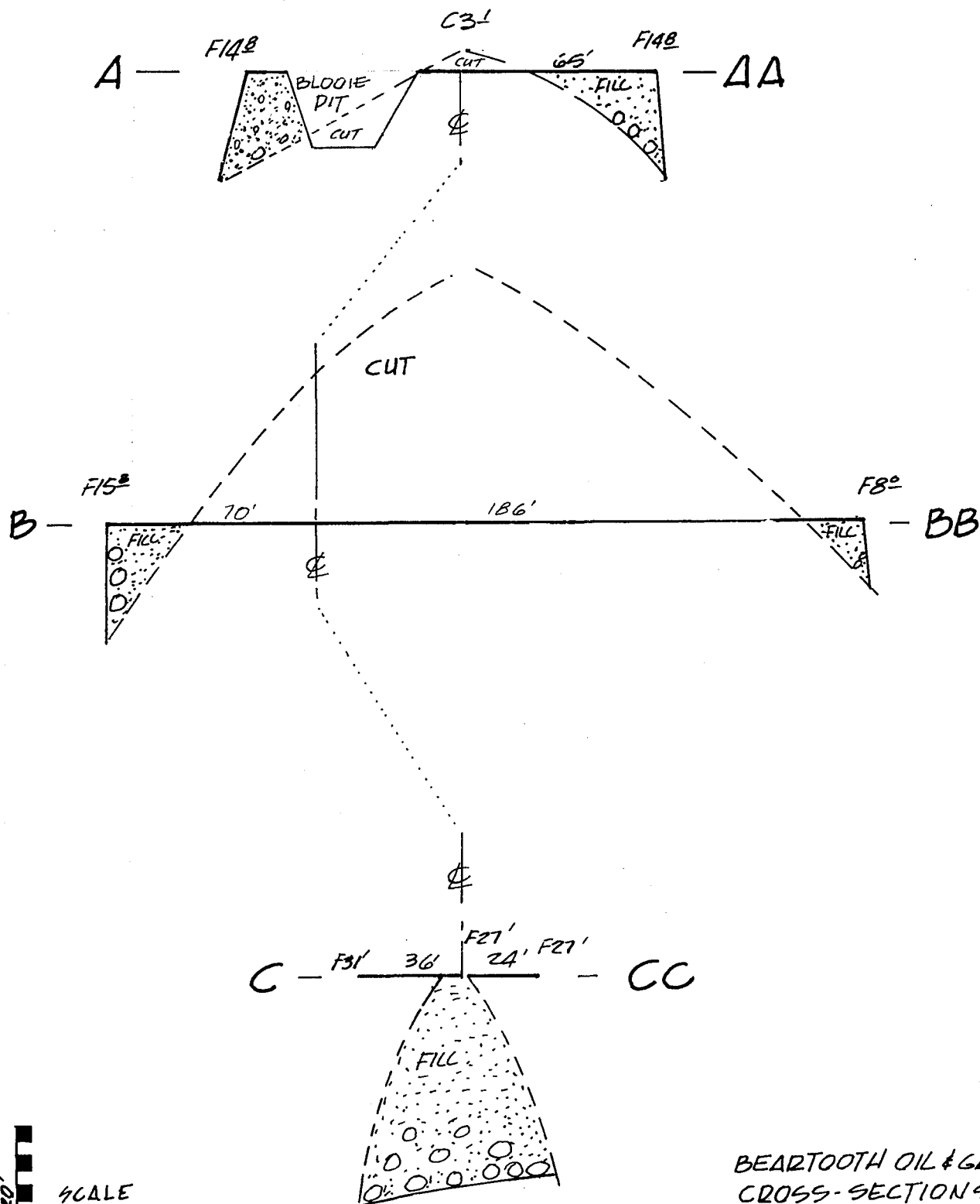
18. I hereby certify that the foregoing is true and correct

SIGNED Grace E. Brown TITLE Drilling Dept. DATE 7/27/82
Grace E. Brown

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

PLAT # 2A
CROSS-SECTIONS
FEDERAL # 33-16



BEARTOOTH OIL & GAS CO.
CROSS-SECTIONS
FEDERAL # 33-16

PLAT # 2

PIT & PAD LAYOUT

FEDERAL # 33-16

F14^B

4A

A F14^B

REF. PT. N. 26° E. 190'

ROAD
ACCESS

BLOOMIE PIT

B-

F15^B

70'

C8^E

F8^B

BB

C45^B

C35^B

C25^B

C15^B

C5^B

C0^B

F5^B

F15^B

60'-80'

ESTIMATED QUANTITIES

CUT 22,500 C.Y.

FILL 15,200 C.Y.

TOPSOIL 3,900 C.Y.

SURPLUS 3,400 C.Y.

VERTICAL LEDGE

PIT & PAD LAYOUT

FED. # 33-16

BEARTOOTH OIL & GAS CO.

GRAND COUNTY, UTAH

1" = 50'

1" = 50'

F34^B

36'

F27^B

REF. PT.

278'

S. 16° W.

CC

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: Beartooth Oil & Gas

WELL NAME: Federal 33-16

SECTION SESE 33 TOWNSHIP 16 S RANGE 25 E COUNTY Grand

DRILLING CONTRACTOR Cardinal

RIG # 4

SPUDDED: DATE 8-18-82

TIME 6:00 AM

HOW Dry Hole

DRILLING WILL COMMENCE _____

REPORTED BY Grace

TELEPHONE # 406-259-2451

DATE 8-23-82 SIGNED AS

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☐ gas well ☒ other

2. NAME OF OPERATOR

Beartooth Oil & Gas Company

3. ADDRESS OF OPERATOR

P. O. Box 2564, Billings, Montana 59103

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

AT SURFACE: 1041' FSL, 510' FEL

AT TOP PROD. INTERVAL:

AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐CHANGE ZONES ☐ABANDON* ☐

(other)

Status Report

SUBSEQUENT REPORT OF:

☐
☐
☐
☐
☐
☐
☐
☐
☐
☐5. LEASE
U-51052

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Federal9. WELL NO.
33-1610. FIELD OR WILDCAT NAME
San Arroyo

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

SE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 33-16S-25E12. COUNTY OR PARISH
Grand13. STATE
Utah14. API NO.
43-019-3096215. ELEVATIONS (SHOW DF, KDB, AND WD)
6908' GL, 6924' KBRECEIVED
AUG 25 1982NOTE: Report results of multiple completion or zone
Abandonment Form 9-330.DIVISION OF
OIL, GAS & MINING

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Spudded 13" hole at 6:00 AM on 8/18/82 with dry hole spudder. Drilled to 216' KB. Ran 6 joints of 9-5/8" 32.3# casing to 210' KB. Cemented with 150 sacks Class "H", 3% CaCl₂, 1/4#/sack celloflake. Had cement to surface, then fell away. Cemented down annulus with 1" tubing, 80 sacks. Hole stayed full of cement.

Waiting on rotary tools - Cardinal Drilling Company Rig No. 4

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Grace E. Brown TITLE Drilling Dept. DATE 8/23/82
Grace E. Brown

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

NOTICE OF SPUD

file

Company: Beartooth oil & Gas

Caller: Grace Brown

Phone: 259-2451 code 406

Well Number: Fed 33-16

Location: SESE 33 16S. 25E

County: Grand State: Utah

Lease Number: U-51052

Lease Expiration Date:

Unit Name (If Applicable):

Date & Time Spudded: 6 AM Aug 18, 1982

Dry Hole Spudder Rotary:

Details of Spud (Hole, Casing, Cement, etc.)

Rotary Rig Name & Number: Cardinal Drilling Rig #4

Approximate Date Rotary Moves In: Aug 23, 1982

FOLLOW WITH SUNDRY NOTICE

Call Received By: Becky George

Date: Aug 20, 1982

RECEIVED

AUG 24 1982

DIVISION OF
OIL, GAS & MINING

Well File
Vernal mms
State oil & Gas
Teresa
Diane

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYForm Approved.
Budget Bureau No. 42-R1424

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☐ gas well ☒ other ☐
2. NAME OF OPERATOR
Beartooth Oil & Gas Company
3. ADDRESS OF OPERATOR
P. O. Box 2564, Billings, Montana 59103
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1041' FSL, 510' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

- TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐

(other) Change of Plans

SUBSEQUENT

- ☐
☐
☐
☐
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☐
☐
☐
☒

RECEIVED
AUG 30 1982

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

DIVISION OF
OIL, GAS & MINING

5. LEASE
U-51052
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME
Federal
9. WELL NO.
33-16
10. FIELD OR WILDCAT NAME
San Arroyo
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
SE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 33-16S-25E
12. COUNTY OR PARISH
Grand
13. STATE
Utah
14. API NO.
43-019-30962
15. ELEVATIONS (SHOW DF, KDB, AND WD)
6924' KB

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

No water was encountered while drilling the Castlegate formation; therefore, it is not necessary to run the 7" intermediate casing to 1920' as applied for in the APD.

The tanks are full of mud and the pump is kept running to circulate the tanks. In the event a large gas flow is encountered, the well will be mudded up immediately. At no time will surface pressures be allowed to exceed 200 psi. The casing the BOP's were tested to 2000 psi before drilling out.

The change of plans was discussed with Bill Martens of the MMS at 9:00 AM 8/27/82.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED James G. Routson TITLE Petroleum Engineer DATE 8/27/82

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____ DATE _____

*See Instructions on Reverse Side

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS & MINING
DATE: 8/31/82
BY: [Signature]

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ well gas ☒ well other ☐
2. NAME OF OPERATOR
Beartooth Oil & Gas Company
3. ADDRESS OF OPERATOR
P. O. Box 2564, Billings, Montana 59103
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1041' FSL, 510' FEL
AT TOP PROD. INTERVAL: same
AT TOTAL DEPTH: same
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

- TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) _____

SUBSEQUENT REPORT OF:

- ☐
☐
☐
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☐
☐

Status Report

RECEIVED
SEP 08 1982

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

**DIVISION OF
OIL, GAS & MINING**

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

TD 5575' - reached TD on 8/31/82.

Ran 143 joints 4½" N-80 11.6# casing to 5575' KB. Cemented with 500 sacks RFC, 1000 gal. CW-100 ahead. Plug down at 2:00 PM 9/1/82.

Waiting on completion tools.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Grace F. Brown TITLE Drilling Dept. DATE 9/2/82
Grace F. Brown

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See instructions on
reverse side)Form approved.
Budget Bureau No. 42-R355.5.

5. LEASE DESIGNATION AND SERIAL NO.

U-51052

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal

9. WELL NO.

33-16

10. FIELD AND POOL, OR WILDCAT

San Arroyo

11. SEC., T., R., M., OR BLOCK AND SURVEY
OR AREASE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 33-16S-25E12. COUNTY OR
PARISH
Grand13. STATE
Utah

14. PERMIT NO.

DATE ISSUED

43-019-30962

7/7/82

15. DATE SPUDDED

8/18/82

16. DATE T.D. REACHED

8/31/82

17. DATE COMPL. (Ready to prod.)

10/12/82

18. ELEVATIONS (DF, REB, RT, GR, ETC.)*

6900' GL, 6916' KB

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

5575'

21. PLUG, BACK T.D., MD & TVD

5533'

22. IF MULTIPLE COMPL.,
HOW MANY*23. INTERVALS
DRILLED BY

ROTARY TOOLS

CABLE TOOLS

0-TD

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

5290-5351' - Dakota

25. WAS DIRECTIONAL
SURVEY MADE

no

26. TYPE ELECTRIC AND OTHER LOGS RUN

DIL/SP/GR, CDI/CNL/GR

27. WAS WELL CORED

no

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9-5/8"	32.3#	210'	13"	150 sacks Class "H"	
4-1/2"	11.6#	5575'	6-1/4"	500 sacks RFC	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-3/8"	5245'	-

31. PERFORATION RECORD (Interval, size and number)

5290-5351' - Dakota

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5290-5351	750 gal. 15% MSR

33.*

PRODUCTION

DATE FIRST PRODUCTION

PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)

WELL STATUS (Producing or
shut-in)

Shut in

DATE OF TEST

HOURS TESTED

CHOKE SIZE

PROD'N. FOR
TEST PERIOD

OIL—BBL.

GAS—MCF.

WATER—BBL.

GAS-OIL RATIO

No test info.

FLOW. TUBING PRESS.

CASING PRESSURE

CALCULATED
24-HOUR RATE

OIL—BBL.

GAS—MCF.

WATER—BBL.

OIL GRAVITY-API (CORR.)

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

James G. Routson

TITLE

Petroleum Engineer

DATE

11/9/82

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: “*Sacks Cement*”: Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
				Dakota Silt	5107'	
				Dakota Sand	5190'	
				Morrison	5397'	

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
1588 West North Temple
Salt Lake City, Utah 84116

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number _____ Federal No. 33-16
Operator Beartooth Oil & Gas Company Address P. O. Box 2564, Billings, MT 59103
Contractor Cardinal Drilling Company Address P. O. Box 1077, Billings, MT 59103
Location SE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 33 T. 16S R. 25E County Grand

Water Sands - NONE ENCOUNTERED

<u>Depth</u>		<u>Volume</u>	<u>Quality</u>
From	To	Flow Rate or Head	Fresh or Salty
1.	_____	_____	_____
2.	_____	_____	_____
3.	_____	_____	_____
4.	_____	_____	_____
5.	_____	_____	_____

(Continue of reverse side if necessary)

Formation Tops Mesaverde - surface; Mancos - 1330'; Castlegate 1630';
Dakota 5190'; Morrison 5397'

Remarks

No water encountered.

- NOTE: (a) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure.
- (b) If a water analysis has been made of the above reported zone, please forward a copy along with this form.



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dianne R. Nielson, Ph.D., Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

August 15, 1984

Mr. Tom Servais
Bureau of Land Management
Grand Resource Area
P.O. Box M
Moab, Utah 84532

Dear Mr. Servais:

Enclosed is a list of wells in your district that I have inspected in the last couple months. I have observed the problems indicated on the individual well sites. I would appreciate your attention to these problems.

Please let me know what action, if any, the Bureau of Land Management is taking on these wells and any results acquired.

Thank you for your cooperation in our inspection program.

Sincerely,

A handwritten signature in cursive script, reading "William E. Moore".

William Moore
Oil and Gas Field Specialist

WM/jmc
attachments
cc: Dianne R. Nielson
John R. Baza

Attachments Page 1

Nicor Federal #1, T16S R25E, Section 28, Lease U-31807, TXO
Production Corporation.

This well is lacking legal signing. Inspected 5/03/84.

Federal 33-16, T16S R25E, Section 33, Lease U-05079, Beartooth Oil
and Gas.

This well is lacking legal signing. Inspected 5/03/84.

Bryson Canyon #1, T17S R24E, Section 10, Lease SL-071172, Trend Oil
Company.

Discharge of oil and water to emergency pit blows forcefully
beyond the pit to the gully below. Inspected 3/06/84.

Federal USA 4970-1, T20S R21E, Section 4, Lease U-014970
J.C. Thompson

Oil has blown forcefully beyond the pit on to the slope beyond,
then runs over the site. Steps have been taken to contain the oil
in a dike, but no clean up has been done. Inspected 5/01/84.

Bull Canyon Federal #3, T20S R21E, Section 9, Lease U-5675,
Southwest-Arkansas Company

The tank is lacking firewalls and seals on valves. Inspected
5/01/84.

Cisco Federal #1, T20S R21E, Section 10, Lease U-38359, Dyco
Petroleum Corporation

The tank is lacking firewalls and seals on valves. Inspected
4/30/84.

Federal 1-10, T20S R21E, Section 10, Lease U-02140, N.P. Energy

The legal information on the sign is incorrect. The range
reads (22E) and should read (21E). Inspected 5/01/84.

Cisco Federal #3, T20S R21E, Section 10, Lease U-38359, Dyco
Petroleum Corporation

Flaring approximately 150 MCF/D in pit. Inspected 4/30/84 and
8/01/84.

Adams 22-3, T20S R21E, Section 22, Lease U-26341, Frank B. Adams

This well was reported as P&A'd in 4/81, however, the site
reclamation has not been completed. The pit needs to be filled and
top soil replaced. Inspected 4/30/84.

Attachments Page 2

CC Co. 26-7, T20S R21E, Section 26, Lease U-16759, CC Company

The well is leaking gas from threads in the well head creating a fire hazard. Inspected 5/01/84.

Federal 27-2, T20S R21E, Section 27, Lease U-7989, CC Company

No P&A marker found on this location. Inspected 5/01/84.

Federal 18-1, T20S R22E, Section 18, Lease U-37730, NP Energy

The tank is lacking firewall and seals. Inspected 5-/01/84.

Federal 21-1, T21S R24E, Section 21, Lease U-12965, Jan Christiansen

Our records indicate State approval terminated due to lack of spudding information. When on site I found an open hole covered by a board and a large open pit. Inspected 5/16/84.

Cimarron Petroleum Corporation #1, T22S, R24E, Section 5, lease U-20047-B, Cimarron Petroleum

Need current status. Found reclaimed site with non-regulation marker set, but have no plugging reports. Inspected 5/17/84.

Cimarron Petroleum Corporation #3, T22S R24E, Section 5, Lease U-20047-B Cimarron Petroleum

Our records indicate State approval terminated 3/01/84, but an open hole was found drilled on location. Need current status.

Federal 26-4, T20S R21E, Section 26, Lease 9B-001641, Adak Energy

This location has been abandoned on 9/28/81, except no site reclamation has been done on the pit or site. Inspected 5/01/84.

Paulsen 26-1, T21S R23E, Seciton 26, Lease U-3820, Daymon D. Gilliland

This well has no legal signing and requires cleaning. Inspected 5/01/84.

Cisco Federal #4, T20S R24E, Section 29, Lease U-034745 Walter D. Broadhead

Open hole presents a haard t'llivestock. Well is currently TA. Inspected 5/04/84.

Calf Canyon Federal #4, T20S R21E, Section 11, lease U-5675, Willard Pease Oil & Gas

Venting approximately 100 to 150 MCF/D off treater to pit. Inspected 4/30/84.